

Claims

We claim:

1 1. In a computer system adapted for speech recognition, a method
2 for executing a voice command in the form of a spoken utterance, comprising
3 the steps of:

4 receiving a user input corresponding to said spoken utterance;

5 processing said user input to identify a pattern of words forming said
6 spoken utterance which match a pre-determined command pattern;

7 identifying a computer system command corresponding to said pre-
8 determined command pattern, said computer system command having at least
9 one parameter;

10 extracting said at least one parameter from a dictation portion of said
11 voice command exclusive of said pattern of words; and

12 processing said computer system command to perform an event in
13 accordance with said at least one command parameter.

1 2. The method according to claim 1 wherein at least one word
2 forming said dictation portion of said voice command is embedded within said
3 pattern of words matching said command pattern.

1 3. The method according to claim 1 wherein said step of identifying
2 said computer system command is performed by using a translation rule.

1 4. The method of claim 1 wherein said dictation portion of said voice
2 command is comprised of any set of words in a voice recognition engine
3 vocabulary.

1 5. The method of claim 4 wherein said event includes inserting said
2 dictation portion at a specified location defined by said computer system.

1 6. The method of claim 1 wherein a plurality of said pre-determined
2 command patterns are provided.

1 7. The method of claim 5 wherein each of said plurality of command
2 patterns belongs to at least one pre-determined command pattern set.

1 8. The method of claim 6 wherein a command pattern in any of said
2 sets can only be matched when said set is in an active state.

1 9. The method of claim 8 wherein said set is placed in an active state
2 when said computer system is in a pre-defined computer system operating
3 state.

1 10. The method of claim 1 further comprising the step of:
2 providing recognized text to a software application if no pattern of
3 words forming said spoken utterance matches said pre-determined command
4 pattern.

1 ✓ 11. A computer speech recognition system for executing a voice
2 command in the form of a spoken utterance, comprising:

3 receiver means for receiving a user input corresponding to said spoken
4 utterance;

5 processor means for processing said user input to identify a pattern of
6 words forming said spoken utterance which match a pre-determined command
7 pattern;

8 identification means for identifying a computer system command
9 corresponding to said pre-determined command pattern, said computer system
10 command having at least one parameter;

11 means for extracting said at least one parameter from a dictation portion
12 of said voice command exclusive of said pattern of words;

13 wherein said processor means processes said computer system
14 command to perform an event in accordance with said at least one command
15 parameter.

1 12. The system of claim 11 wherein at least one word forming said
2 dictation portion of said voice command is embedded within said pattern of
3 words matching said command pattern.

1 13. The system of claim 11 wherein said identification means uses a
2 translation rule to identify said computer system command.

1 14. The system of claim 11 wherein said dictation portion of said
2 voice command is comprised of any set of words in a voice recognition engine
3 vocabulary.

1 15. The system of claim 14 further comprising an insertion means,
2 wherein said event includes said insertion means inserting said dictation portion
3 of said voice command at a specified location defined by said computer
4 system.

1 16. The system of claim 11 wherein a plurality of said pre-determined
2 command patterns are provided.

1 17. The system of claim 16 wherein each of said plurality of command
2 patterns belongs to at least one pre-determined command pattern set.

1 18. The system of claim 17 wherein a command pattern in any of said
2 sets can only be matched when said set is in an active state.

1 19. The system of claim 18 wherein said set is placed in an active state
2 when said computer system is in a pre-defined system operating state.

1 20. The system of claim 11 wherein said processor means provides
2 recognized text to a software application if no pattern of words forming said
3 spoken utterance matches said pre-determined command pattern.

1 21. A machine readable storage, having stored thereon a computer
2 program having a plurality of code sections executable by a machine for
3 causing the machine to perform the steps of:

4 receiving a user input corresponding to a voice command in the form of a
5 spoken utterance;

6 processing said user input to identify a pattern of words forming said
7 spoken utterance which match a pre-determined command pattern;

8 identifying a computer system command corresponding to said pre-
9 determined command pattern, said computer system command having at least
10 one parameter;

11 extracting said at least one parameter from a dictation portion of said
12 voice command exclusive of said pattern of words; and

Ad

[illegible]